Packaging

Introduction

A packaging career today requires a thorough knowledge of materials, methods, design concepts, and machinery to develop and produce the packages that protect and preserve a product, help market the product and instruct the consumer in its proper use. UW-Stout's Bachelor of Science degree program in Packaging prepares students for technical or management responsibilities in the packaging industry to meet these needs. The program places strong emphasis on the application of theory to strengthen problem solving abilities and challenges students by providing opportunities to solve "real" packaging industry problems in classroom/laboratory settings.

The trend in the packaging industry is to hire employees who can function in more than one area at career entry. UW-Stout's Packaging program recognizes this trend by offering the student several "emphasis" options which include course and laboratory work beyond the technical core of the program. This distinguishing feature allows students to draw on other well-recognized programs offered at UW-Stout: graphic arts, graphic design, food science, business and sales, quality and manufacturing, and packaging research and development.

With the quantity and variety of products produced in the world, it is easy to understand that packaging is a dynamic multibillion dollar industry in need of well educated men and women. Graduates of the program are positioned advantageously for entry into the expanding and evolving packaging industry, as well as for further studies in the field of packaging.

General Requirements
Bachelor of Science Degree

Total for graduation	124
General Education	56
Major Studies	55-56
Emphasis	12-13

Program Requirements
General Education

56 credits required

A. Communication Skills — 10 credits

ENGL-101	Freshman English-Composition *or*	
ENGL-111	Freshman English-Honors I	3
ENGL-102	Freshman English-Reading and Related Writing *or*	
ENGL-112	Freshman English-Honors II	3
SPCOM-100	Fundamentals of Speech	2

From the approved list of General Education courses, select:

SPCOM-XXX	*Any advanced speech or*	
XXX-XXX	*Any foreign language*	2

B. Analytic Reasoning — 6 credits

STAT-130	Elementary Statistics	2
MATH-153	Calculus I	4

C. Health and Physical Education — 2 credits

Courses must be from areas of health, physical education or nutrition.

D. Humanities and the Arts — 9 credits

ART-101	Two-Dimensional Design	3

Remaining courses must be from at least two other areas including art history, foreign language and culture, history, literature, music appreciation, performing arts and philosophy.

E. Social and Behavioral Sciences — 9 credits

ECON-201	General Economics *or*	
ECON-210	Principles of Economics I	3

Remaining courses must be from at least two other areas including anthropology, geography, political science, psychology and sociology.

F. Natural Sciences (with Lab) — 18 credits

CHEM-135	College Chemistry I	5

Select one Physics sequence:

PHYS-241	College Physics I and	
PHYS-242	College Physics II	10
PHYS-281	University Physics I and	
PHYS-282	University Physics II	10

Select 3 credits from:

BIO-XXX	*Any approved General Education Biology elective*	3

(*BIO-111 Science, Society, and the Environment is recommended*)

G. Technology — 2 credits

Major Studies

39-41 credits required

ENGGR-112	Engineering Graphics Fundamentals	3
ENGGR-210	Solid Modeling	3
RD-205	Design for Industry *or*	
GCM-141	Graphic Communications and Electronic Publishing *or*	
ELEC -204	Electricity/Electronics Fundamentals	3
MFGT-340	Plastics Processing *or*	
MFGT-251	Polymer and Composite Processes	3
PKG-150	Packaging Fundamentals	3
PKG-210	Packaging Materials: Paper, Wood, Adhesives, and Metal	3
PKG-220	Packaging Materials: Polymers and Glass	3
PKG-250	Consumer Packaging Systems	3
PKG-260	Distribution Packaging	3
PKG-335	Packaging Machinery	3
PKG-350	Packaging Design and Evaluation	3
PKG-490	Packaging Development	3
PKG-495	Packaging Seminar	2
ENGL-415	Technical Writing	3
PKG-X49	Cooperative Education Experience	1-3

Professional/Management

14 credits required

INMGT-320	Quality Tools	3
INMGT-200	Production/Operations Management	3
INMGT-300	Engineering Economy	2
INMGT-365	Project Management	3
INMGT-400	Organizational Leadership	3

Emphasis

12-13 credits required

Select 12-13 credits from an emphasis area to meet your career objectives.

Business/Sales — 12 credits

BUACT-210	Financial-Managerial Accounting *or*	
BUACT-206	Introduction to Financial Accounting	2-3
BUMGT-304	Principles of Management	3
BUMIS-333	Management Information Systems-Decision Support Systems	3
BUMKG-330	Principles of Marketing	3
BUMKG-334	Salesmanship and Sales Management	3

Foods/Packaging — 13 credits

FN-240	Food Science	4
FN-325	Food Packaging	3
FN-440	Food Packaging Lab	3

Select 3 credits from the following:

BIO-406	Food Microbiology	3
FN-410	Food Policy Regulation and Law	3
FN-442	Basic Sensory Analysis	3
FN-450	Food Engineering	3
CHEM-315	Food Chemistry	3

Manufacturing/Quality — 12 credits

INMGT-220	Service Quality Assurance	3
INMGT-320	Quality Tools	3
INMGT-325	Quality Management	3

Select 6 credits from the following:

BUACT-410	Manufacturing Cost Analysis	3
INMGT-305	Product and Inventory Control	3
INMGT-330	Material Handling	3
INMGT-340	Time and Motion Study	3
INMGT-350	Facilities Planning	3
INMGT-410	Six Sigma Quality Improvement Methods	3
MFGT-303	Computer Aided Manufacturing	3
MFGT-405	Industrial Robotics	3
RC-381	Occupational Safety/Loss Control	3

Medical/Healthcare

In development

Package Printing — 12 credits

GCM-151	Prepress Tools and Processes	3
GCM-251	Digital Prepress File Creation	2
GCM-266	Digital and Offset Press Systems	4
GCM-270	Postpress Operations/Planning	3
GCM-363	Package Printing	4
GCM-445	Publication Production	3

Packaging Design Research and Development — 12 credits

MECH-290	Mechanics of Solids I	3
MECH-291	Mechanics of Solids II	3
MECH-393	Mechanics of Machinery II	3
PHYS-321	Statics and Strength	3-4

Select 3-5 credits from the following:

CHEM-341	Chemistry of Materials	4
MFGT-204	Polymer Processes	3
MFGT-405	Industrial Robotics	3
RD-320	Prototype Development and Model Making	3
RD-420	Research and Development *and*	
RD-421	Research and Development Laboratory	3

Packaging Graphic Design — 12 credits

ART-100	Drawing I	3
ART-103	3-D Design	3
ARTH-222	Introduction to Art *or*	
DES-205	Presentation Techniques	3
DES-200	Design Theory and Methods	3
DES-210	Letter Form Design	3
DES-310	Graphic Design I	3
DES-360	Graphic Design II	3
DES-410	Product and Packaging Graphics	3

Plastics — 13 credits

CHEM-325	Chemistry of Polymers	4
MFGT-341	Injection Molding Technology	3
MFGT-342	Thermoform and Blow Molding	3
MFGT-343	Extrusion Technology	3